IN THE SPECIFICATION:

Please replace paragraph [0004] with the following amended paragraph:

[0004] A fiber-optic interferometer sensor may be used to detect changes in light affected by an environmental condition as the light propagates along an optical fiber. ~~A fiber-optic interferometer is typically formed by two reflectors, each placed at the A~~ fiber-optic interferometer is typically formed by two reflectors, each placed at the end of a different optical path. One of the fiber-optic paths may be exposed to an environmental condition that alters a parameter of light transmitted through that path. Reflected light from each path may be recombined to mix coherently, thereby forming a "fringe" signal which is directly related to the difference in optical path lengths (i.e., the products of refractive index and physical length of the different paths). The fringe signals may be analyzed and correlated with the magnitude of the environmental condition. Fiber-optic interferometer sensors are typically used in applications where very sensitive measurements are required.